CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/MR/CSR-05/028d/CEMENT/2016-17 Date: 04.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.
*AGENCY	:	**Mr. M Rajashekar,** #90, 34th Cross, Juganahalli, Rajajinagara,Bangalore.
*NAME OF THE WORK	:	Improvements and Construction of CC road and drains at old Maheshwari temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 02.05.2016
SAMPLE ID	:	Cement-Sample 2
SAMPLE RECEIVED ON	:	02.05.2016
PERIOD OF TESTING	:	04.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MR/CSR-05/028d/SAND-Gradation/2016-17 : 04.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.

*Agency : **Mr. M Rajashekar,** #90, 34th Cross, Juganahalli, Rajajinagara,Bangalore.

*Name of Work : Improvements and Construction of CC road and drains at old Maheshwari temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.

*Reference : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 02.05.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates-Sample 2

Sample Received on : 02.05.2016

Date of Testing : 04.05.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.00	90-100	90-100	90-100	95-100
2.36	76.90	60-95	75-100	85-100	95-100
1.18	56.40	30-70	55-90	75-100	90-100
600 Micron	32.50	15-34	35-59	60-79	80-100
300 Micron	17.50	5-20	8-30	12-40	15-50
150 Micron	8.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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T-2377

Job No.: CTCE/BBMP/MR/CSR-05/028d/AGG/GR/2016-17 : 04.05.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.
* Agency	: **Mr. M Rajashekar,** #90, 34th Cross, Juganahalli, Rajajinagara,Bangalore.
* Name of Work	: Improvements and Construction of CC road and drains at old Maheshwari temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 02.05.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)-Sample 2
Sample Received on	: 02.05.2016
Date of Testing	: 04.05.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.39	95-100	85-100
20	39.40	30-70	0-20
10	22.76	10-35	0-5
4.75	6.71	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/MR/STEEL/2016-17

06.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.
Agency	:	**Mr. M Rajashekar,** #90, 34th Cross, Juganahalli, Rajajinagara,Bangalore.
Name of the Work	:	Improvements and Construction of CC road and drains at old Maheshwari temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 02.05.2016
Date of Test	:	06.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	511	557	13.15	O.K	O.K

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Job No.: CTCE/BBMP/MR/STEEL/2016-17

06.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer, T. Dasarahalli** Sub Division, Bagalagunte, BBMP, Bangalore.
Agency	:	**Mr. M Rajashekar,** #90, 34th Cross, Juganahalli, Rajajinagara,Bangalore.
Name of the Work	:	Improvements and Construction of CC road and drains at old Maheshwari temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 02.05.2016
Date of Test	:	06.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	516	556	13.40	O.K	O.K

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Job No.: CTCE/BBMP/MR/CSR-05/028d/CUBE/2016-17 07.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.

*** Agency** : **Mr. M Rajashekar,** #90, 34th Cross, Juganahalli, Rajajinagara,Bangalore.

*** Name of the work** : Improvements and Construction of CC road and drains at old Maheshwari temple road in Dasarahalli Ward No. 15, BBMP, Bangalore.

*** Reference** : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 02.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2016	07.06.2016	8.157	523.6	23.27
2	10.05.2016	07.06.2016	8.269	526.5	23.40
3	10.05.2016	07.06.2016	8.357	515.5	22.91

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